



Patent Application for: Methods of Performing Cycloadditions, Reaction Mixtures, and
Methods of Performing Asymmetric Catalytic Reactions
Inventors: Viresh H. Rawal, Yong Huang, Aditya K. Unni, and Avinash N. Thadani
7814/86

Replacement Sheet

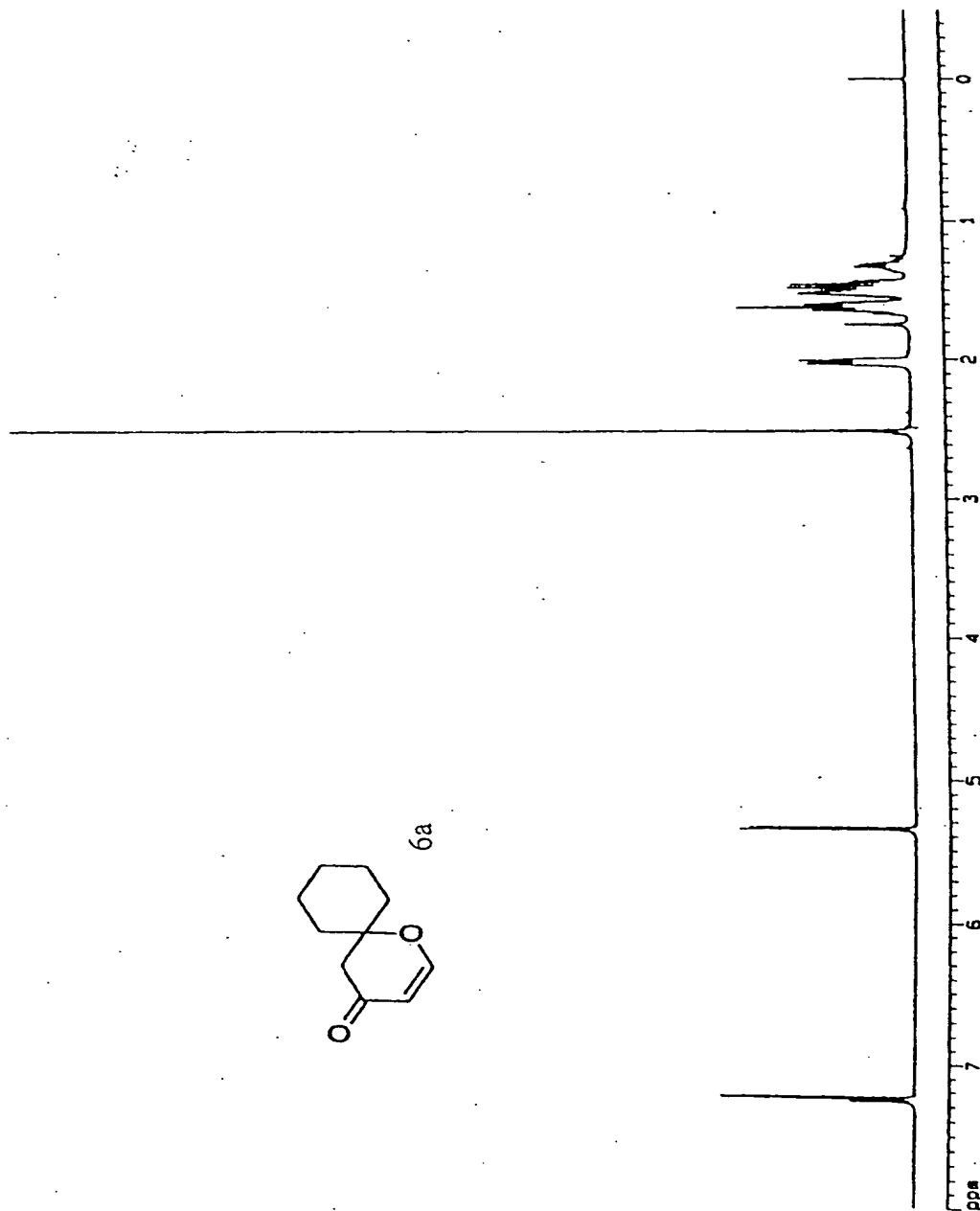


FIGURE 12

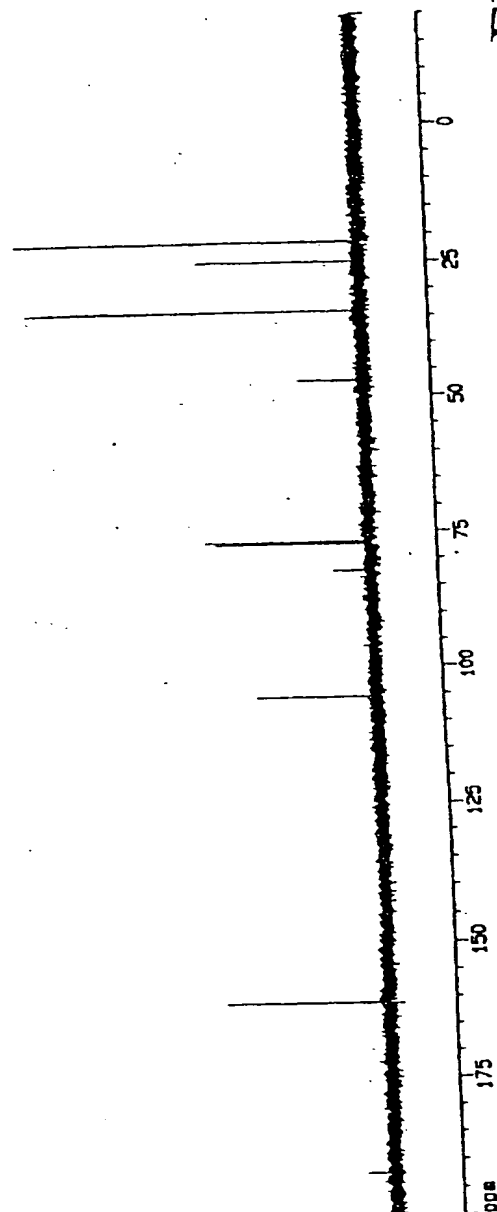
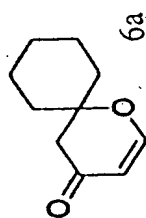


FIGURE 13

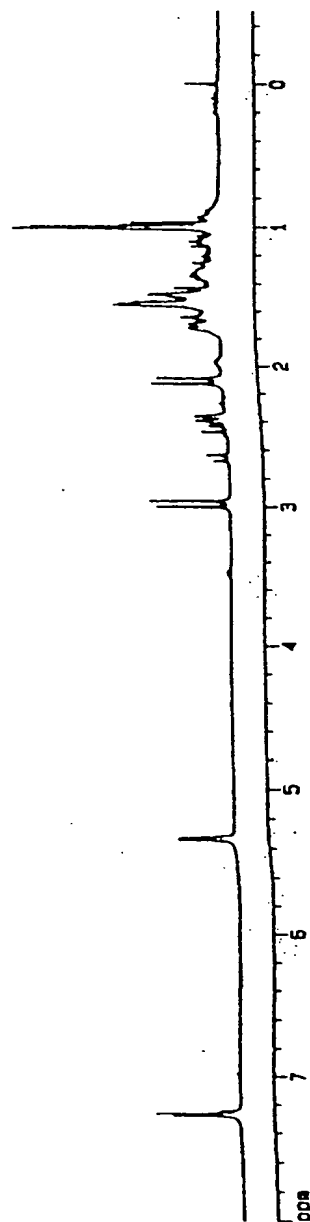
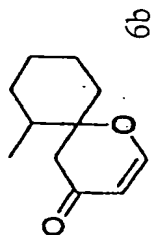


FIGURE 14

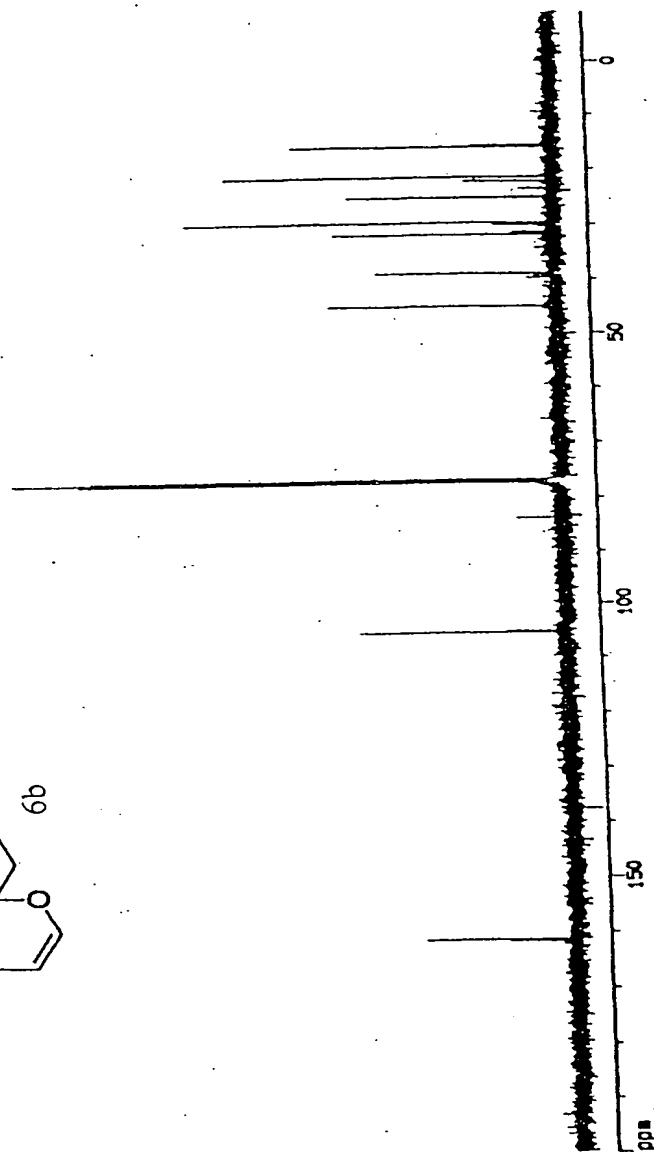
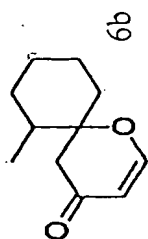


FIGURE 15

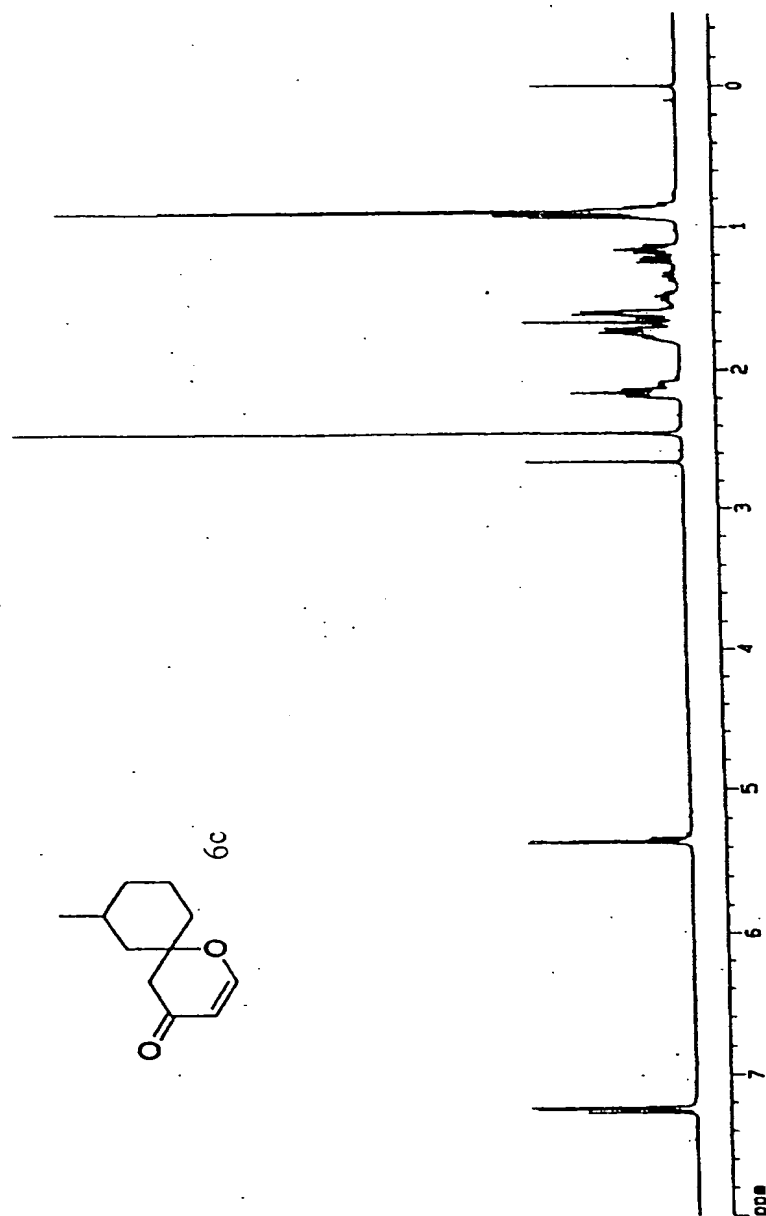


FIGURE 16

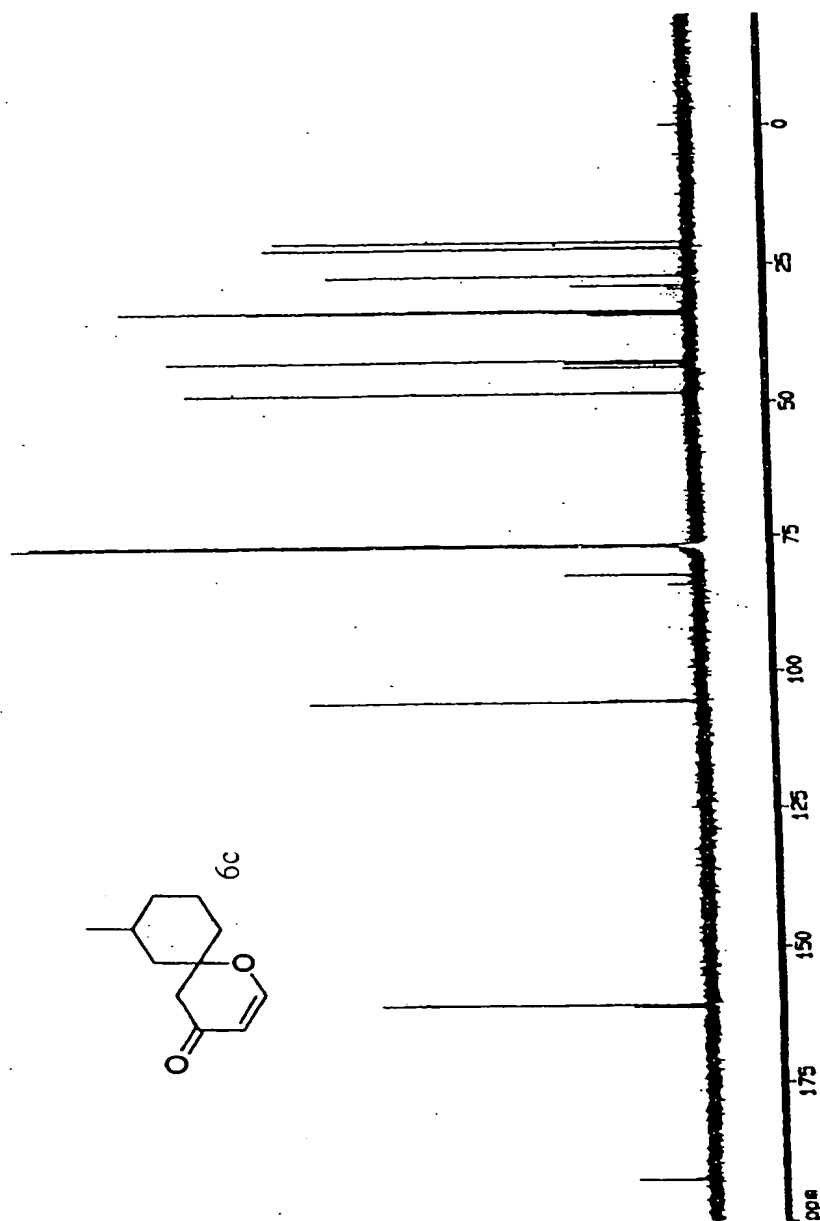


FIGURE 17

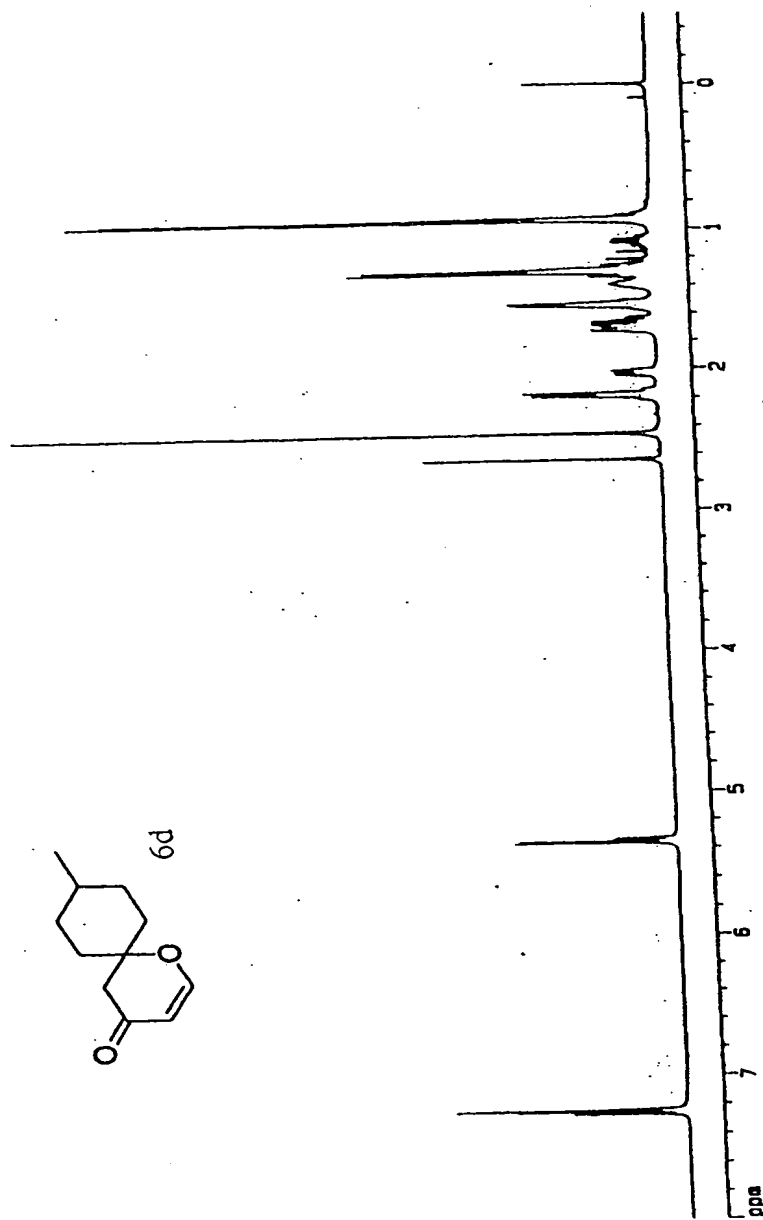


FIGURE 18

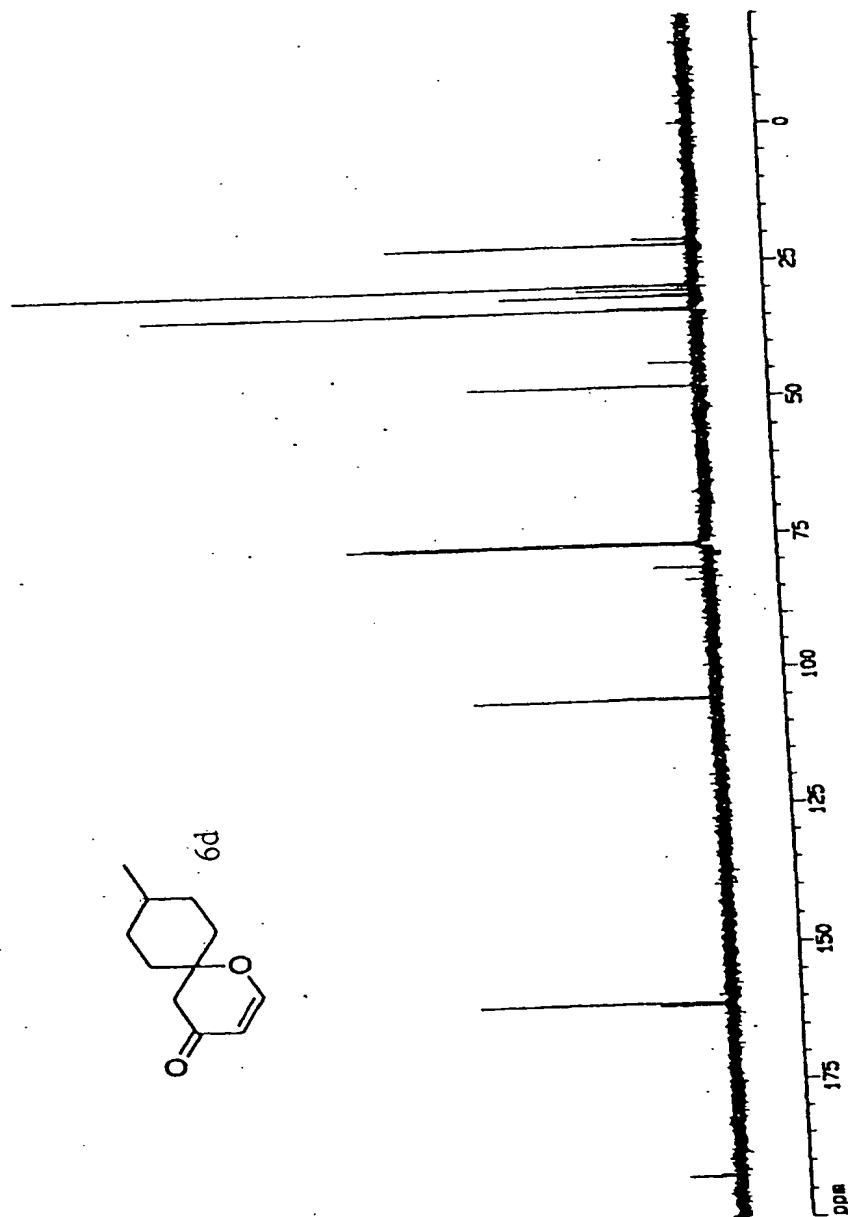


FIGURE 19

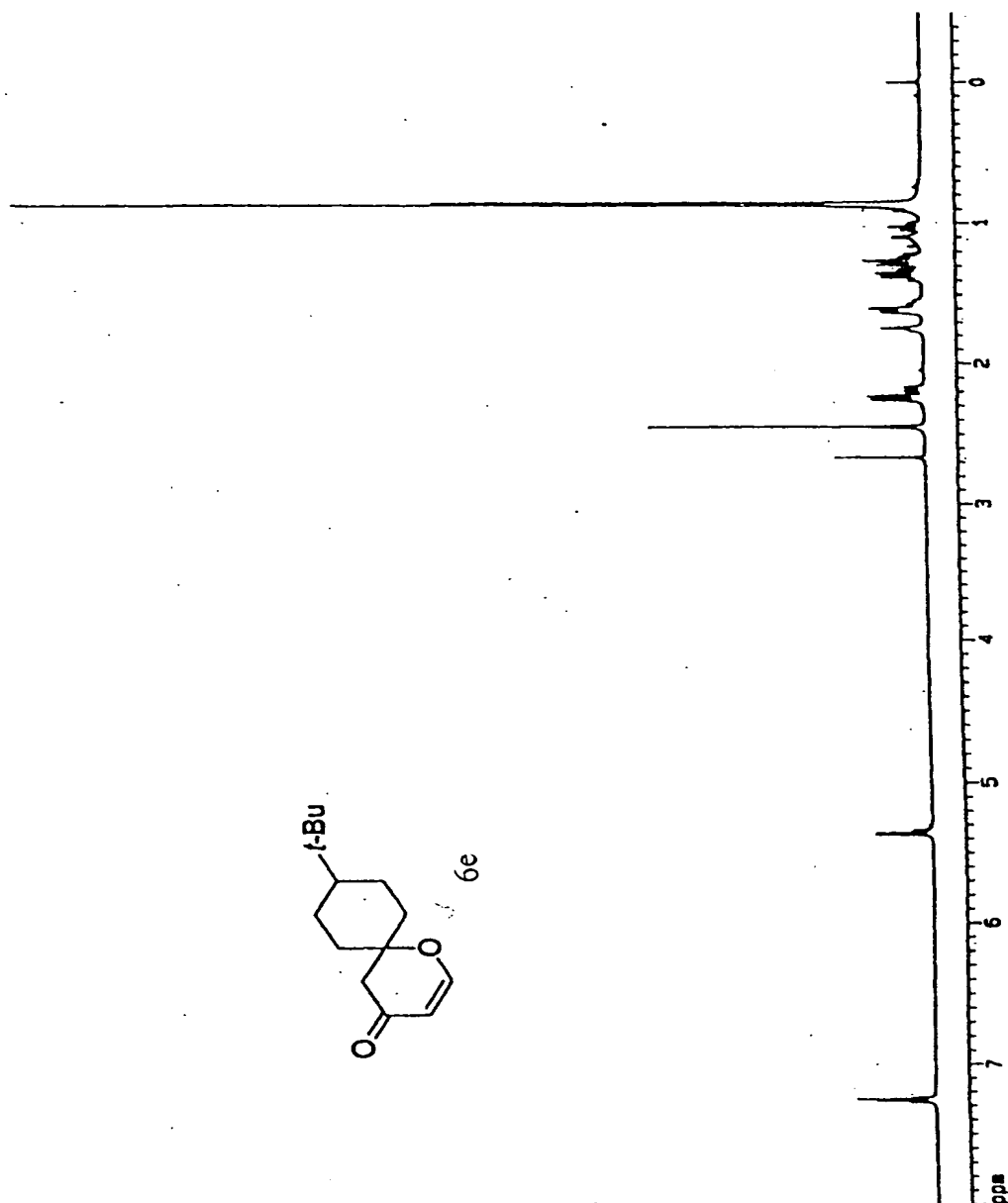


FIGURE 20

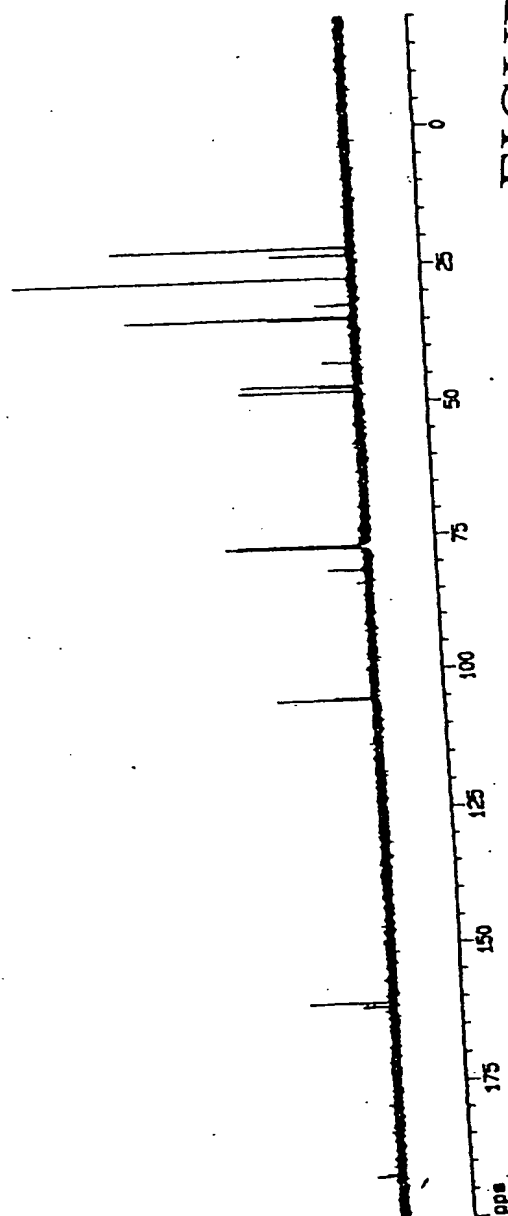
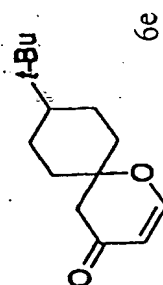


FIGURE 21

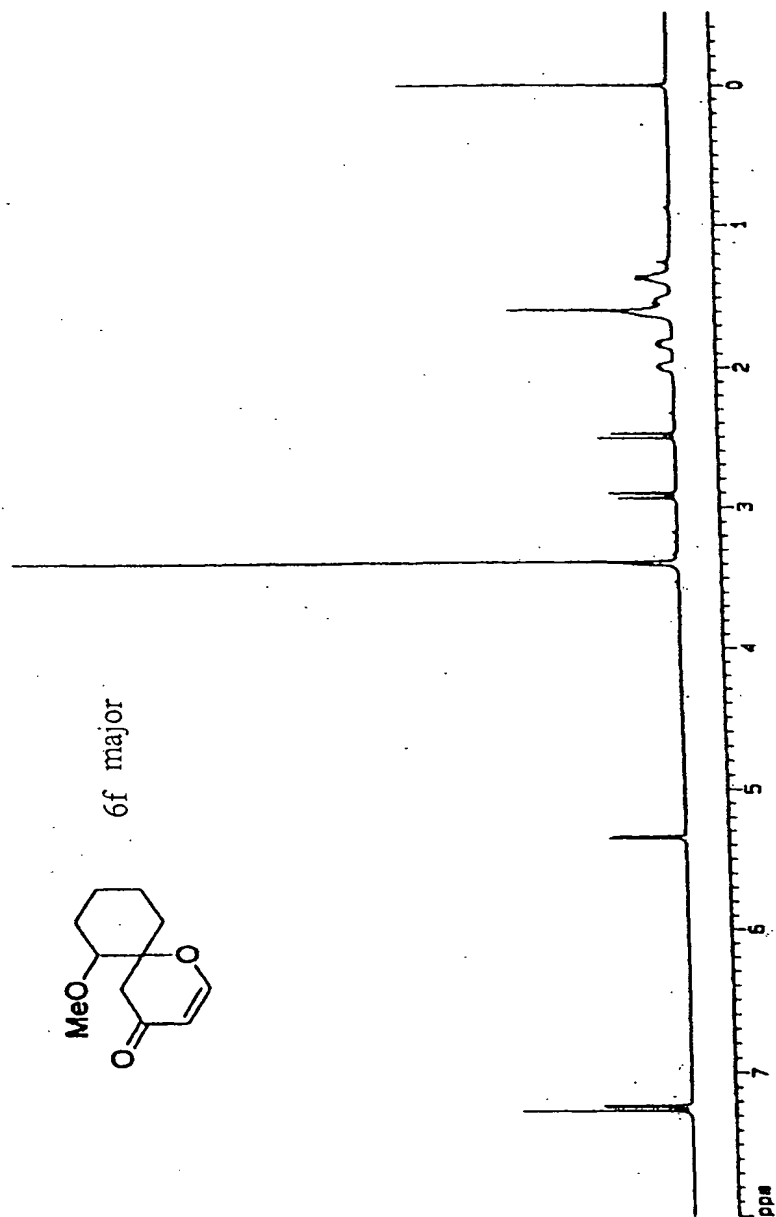


FIGURE 22

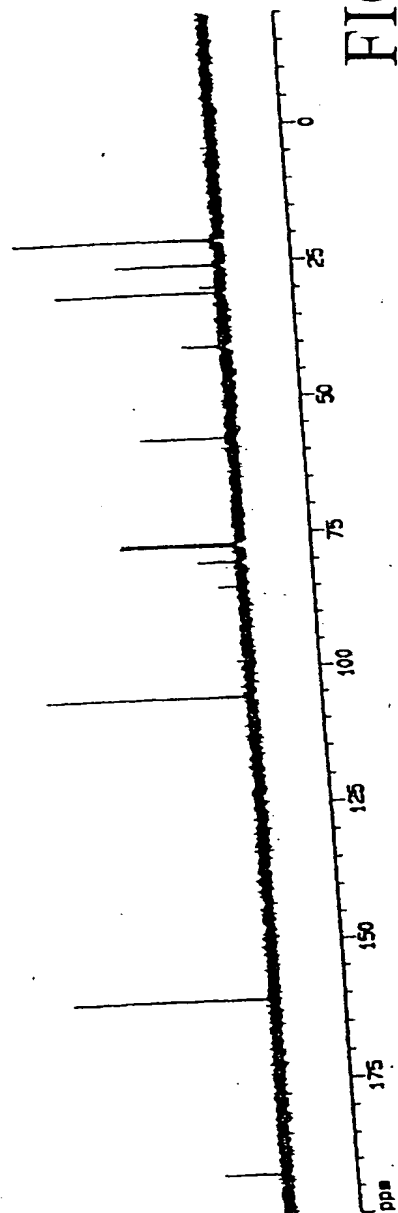
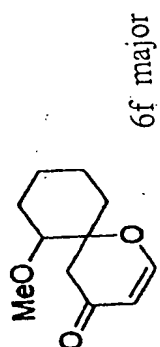


FIGURE 23

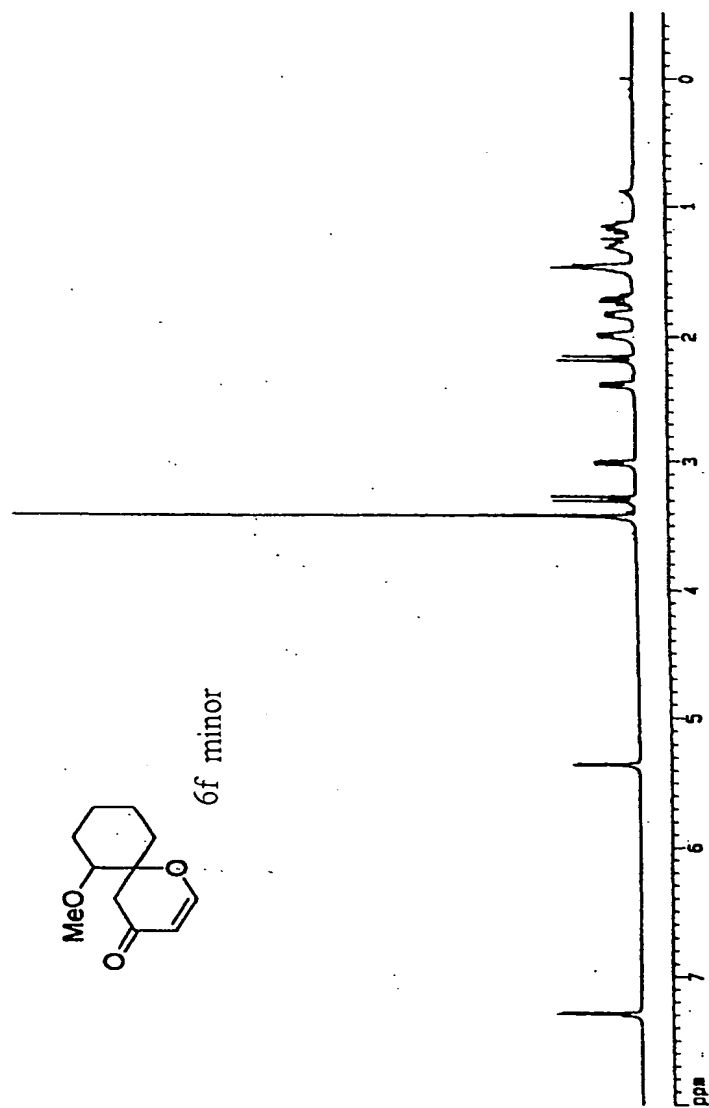
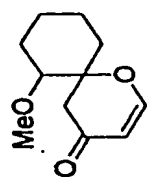


FIGURE 24



6f minor

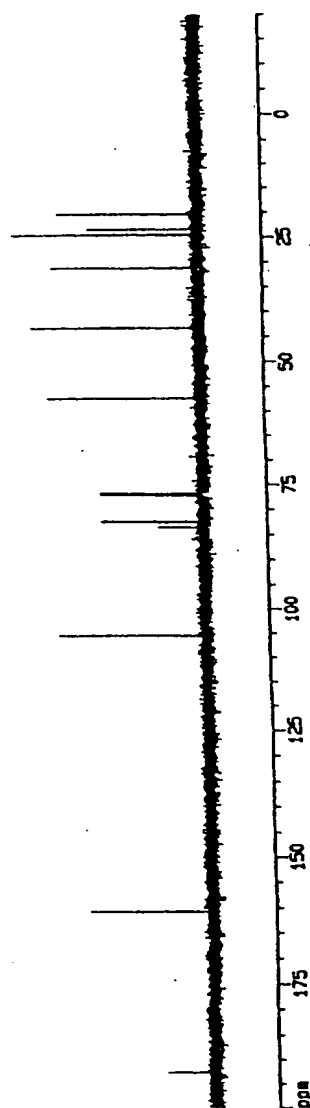


FIGURE 25

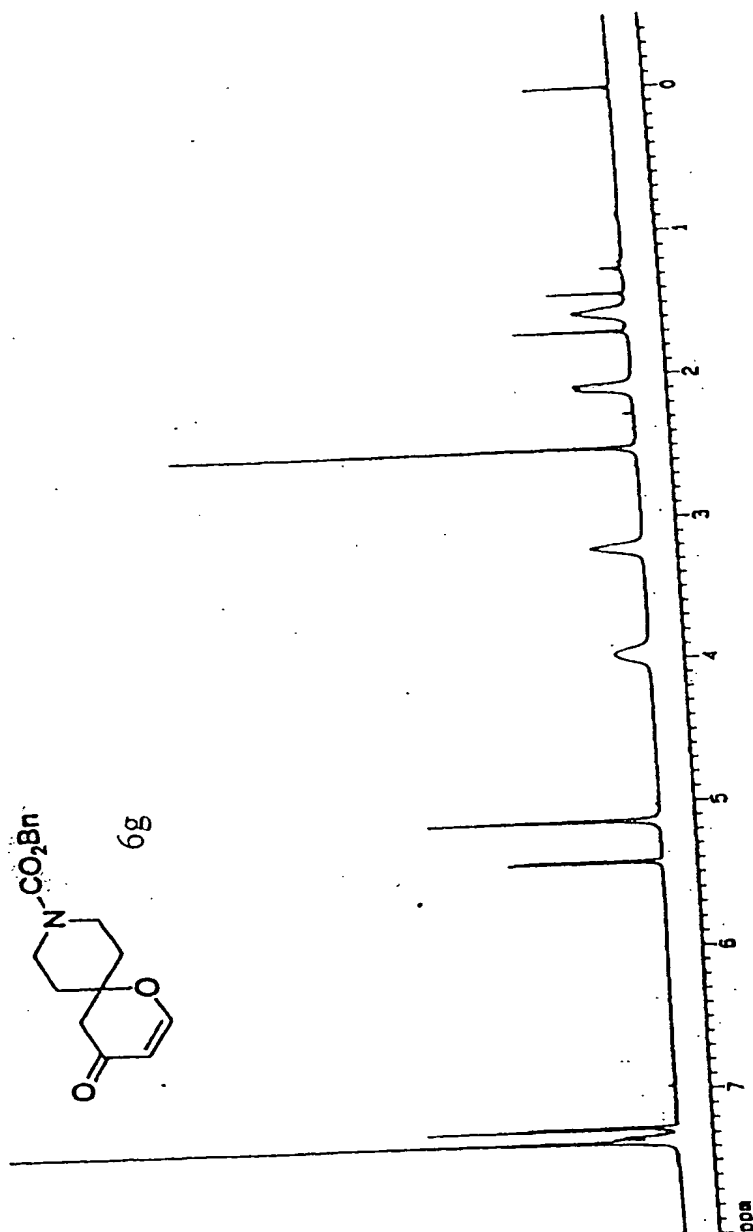


FIGURE 26

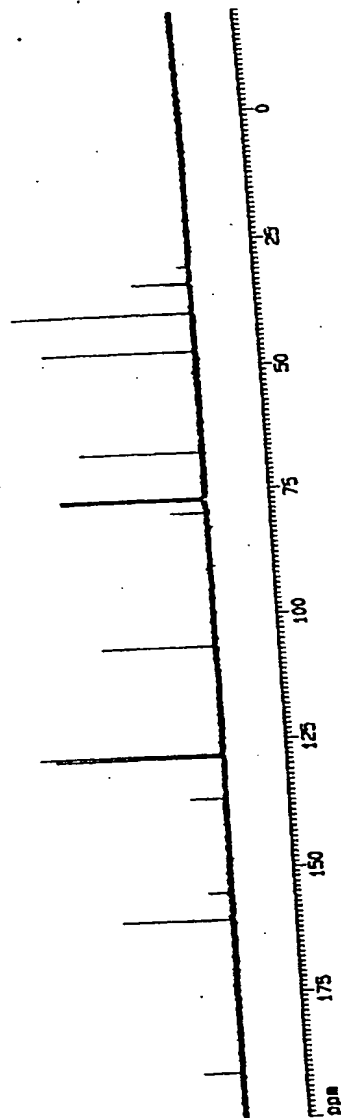
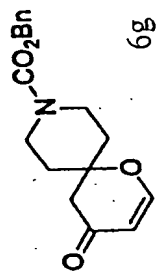


FIGURE 27

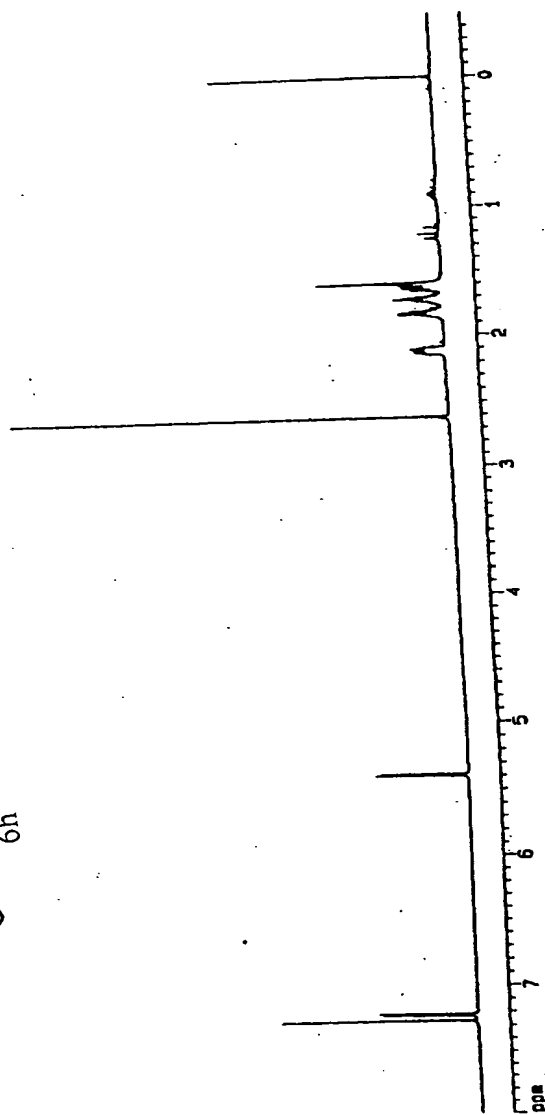
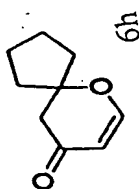


FIGURE 28

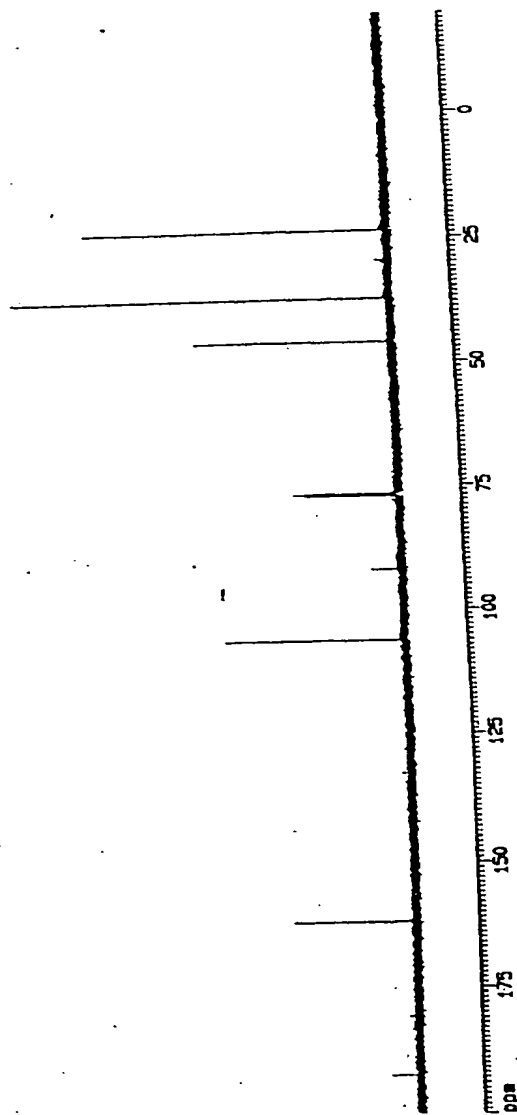
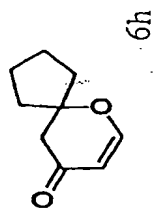


FIGURE 29

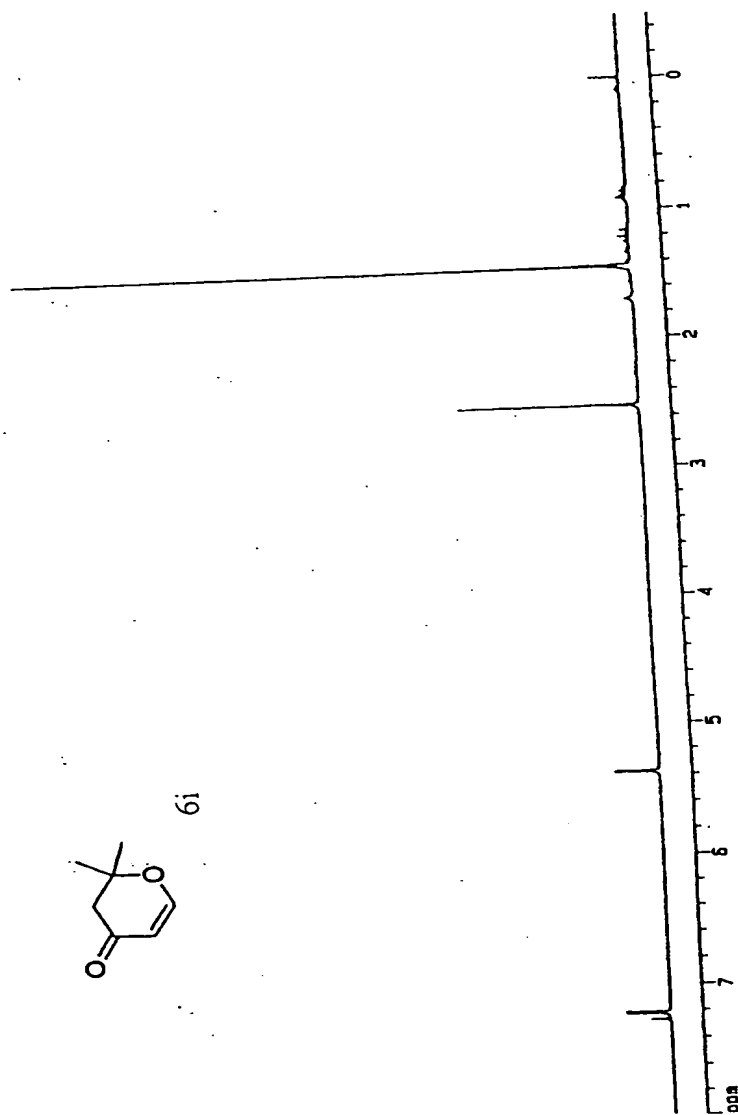


FIGURE 30

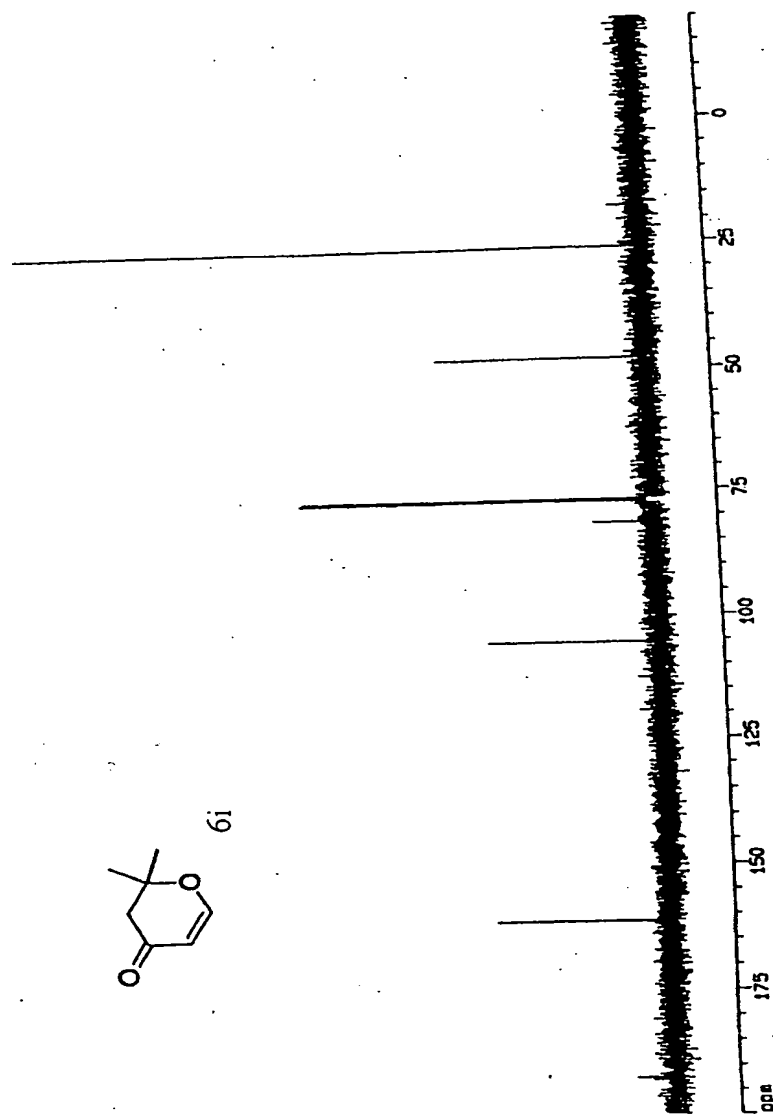


FIGURE 31

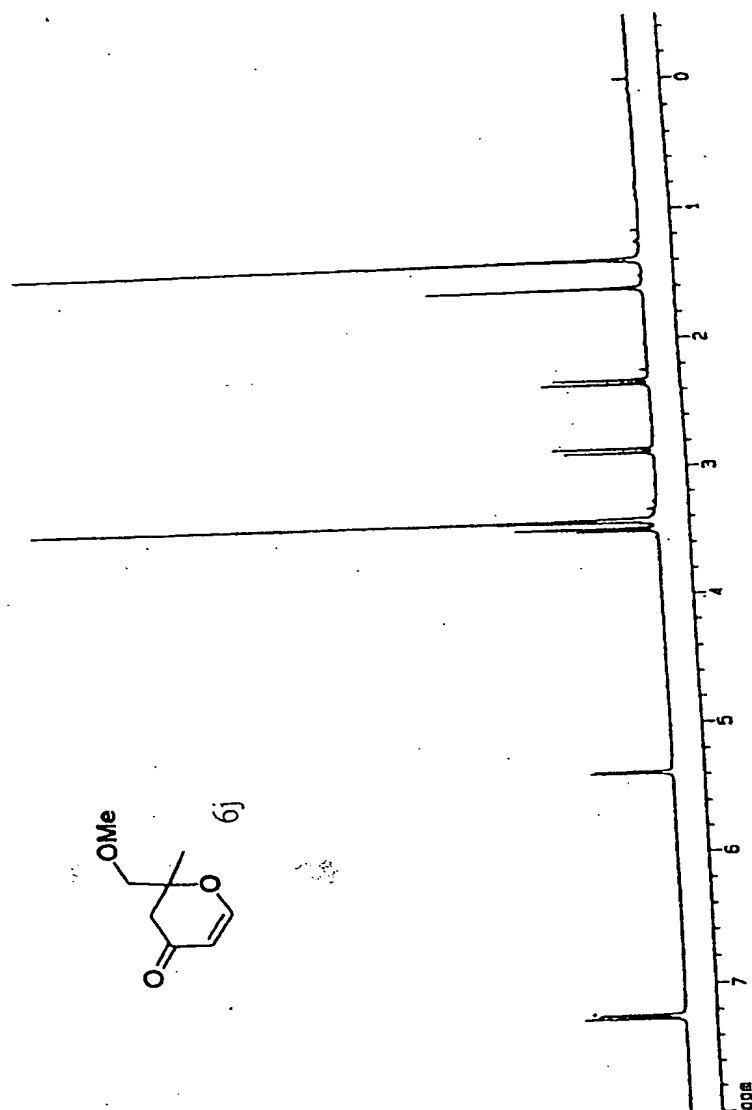


FIGURE 32

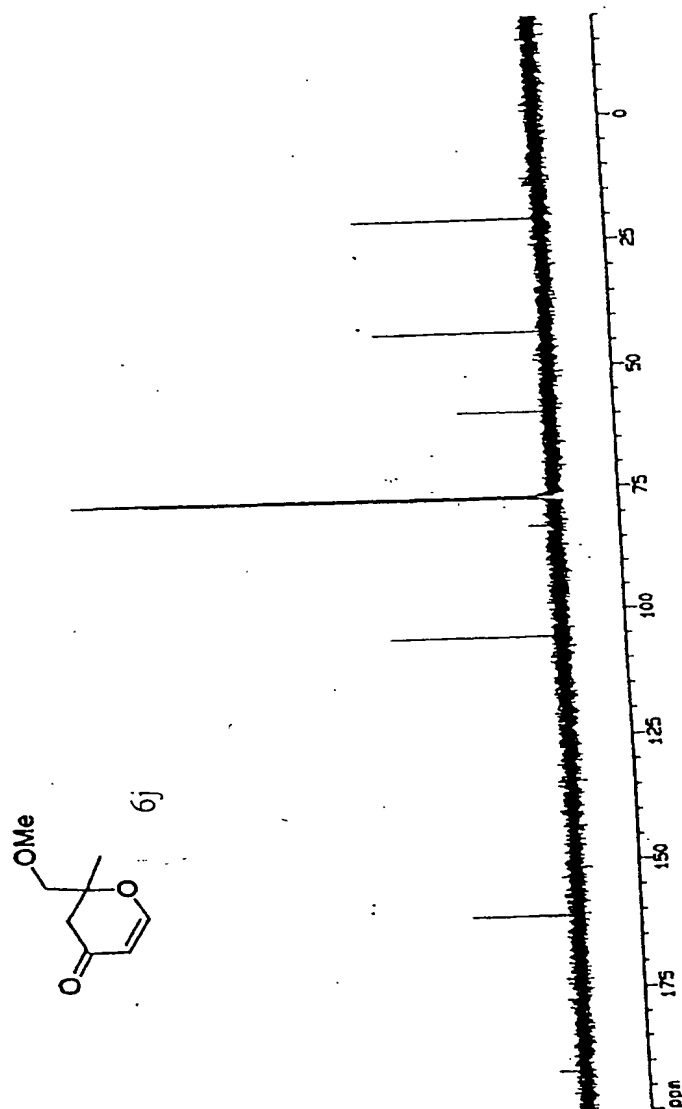
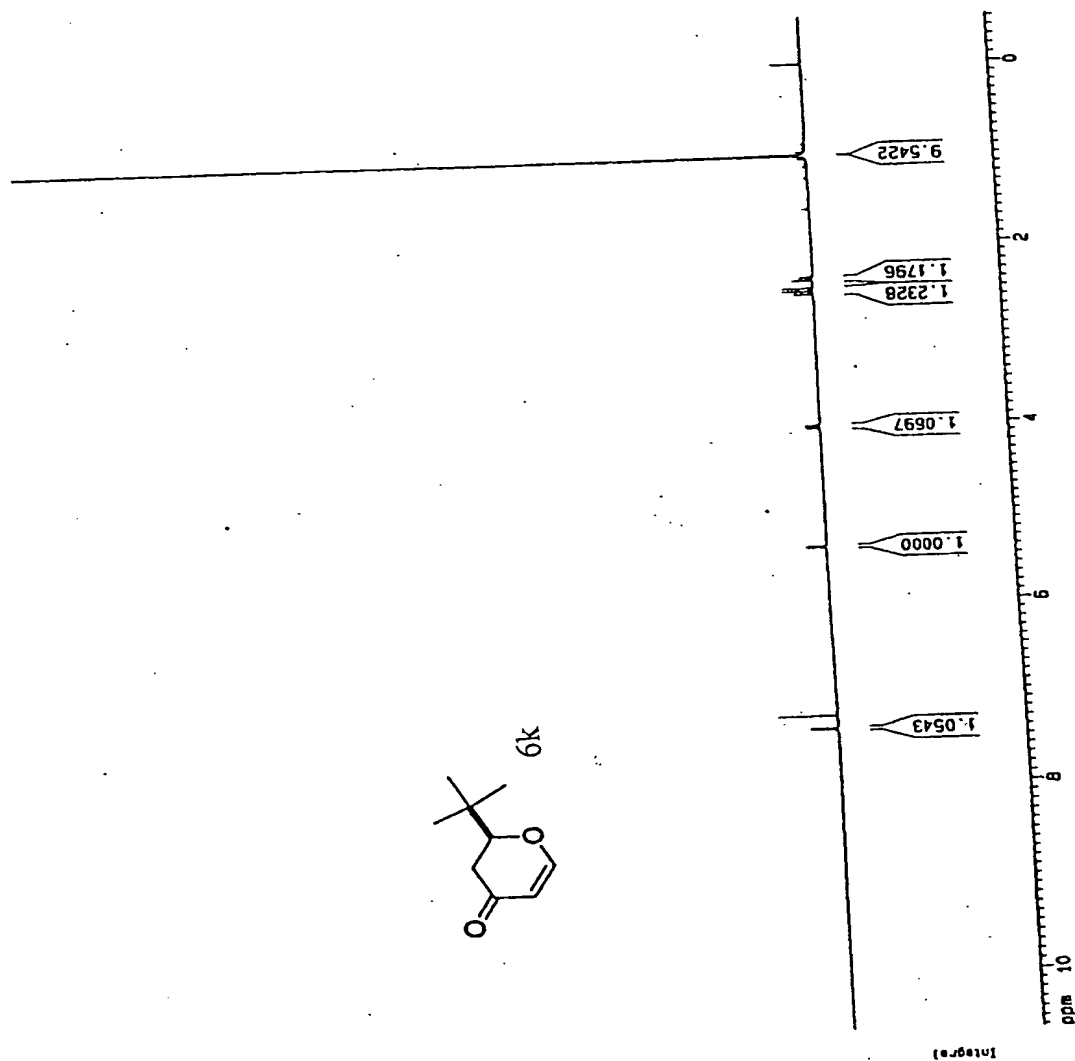


FIGURE 34



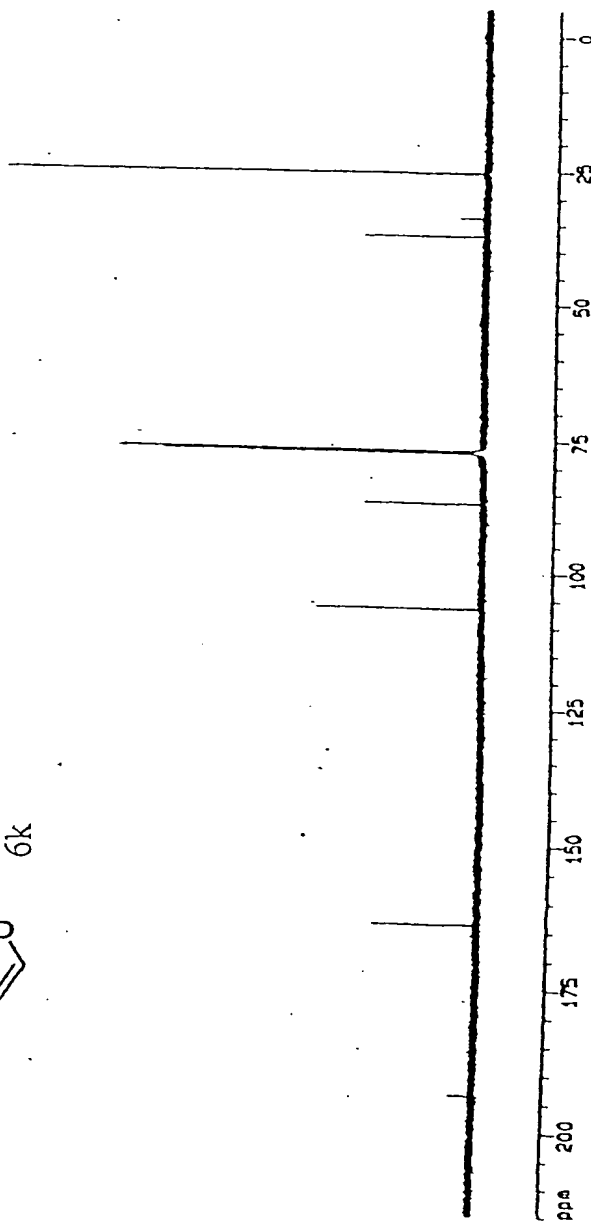
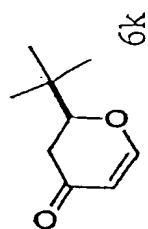


FIGURE 35